



Potential DPAS AIT Implementations



Through Automation, Productivity is Increased and Accuracy is Improved

<https://www.dpas.dod.mil>



Potential Automation Initiatives

- 1. Add CMB reader to DPAS's existing Inventory and HRH Transfer process for receipt/issue/inventory of weapons and sensitive items**
 - Army/Navy pilots exist, but requires a separate application to function.
 - For Army pilot, assets are in DPAS and separate application with no automated interface to update DPAS for asset movement/inventory (Requires dual updates).
 - CMB reader API could easily be incorporated into the existing DPAS inventory program, thus eliminating an application and reduce the process steps for property control and accountability.



Potential Automation Initiatives - Cont'd

- 5. Utilize Portals at Egresses to Automatically Update Inventory Location and Control / Restrict the Movement of Assets (Add-On to Current DPAS RFID processes)**
- 6. Utilize PDCDs for Receipt Processing at Point of Entry**
- 7. Utilize PDCDs for Issues>Returns**
- 8. Print Labels in 2D to include UID**

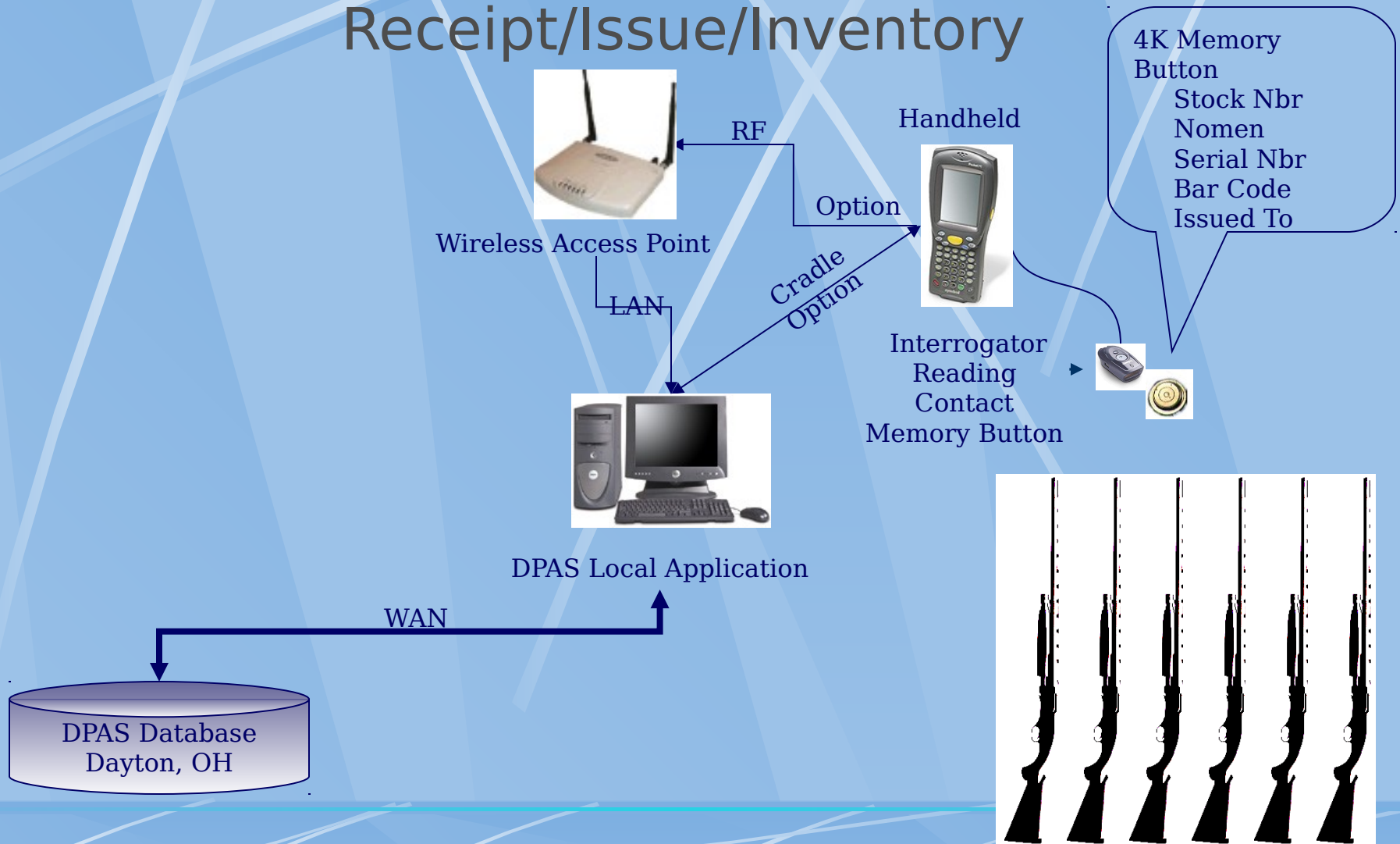
Add CMB (Contact Memory Button)* Reader to DPAS



- **Must be touched**
- **Verification of serial number at time of touch**
- **Auto-update of inventory/HRH changes**

***Possible Alternative to CMBs, where no data storage is required, would be to use Thermal Transfer Stencil Bar Code Technology**

Weapons/Sensitive Item Control Room Receipt/Issue/Inventory



Auto-Update of Asset Location Changes via Passive RFID Tags & Portals

- **Portals Strategically Placed Where Info Needs to be Gathered**
- **Tag is Read as Asset Moves through Portal for Recording of Movement for Automatic Update of Location Change**
- **With Security Code Enabled, Could Cause another Event to Occur - Ex. Ring Bell / Flash Lights, Record in Database Date/Time of Event, etc.**

Asset Location Changes

**Notifies System of Pass Through Portal,
Database is Updated with Change in Location**

**Local PC with
DPAS's PDCD
Manager**



WAN



**DPAS
Server
Dayton,
OH**

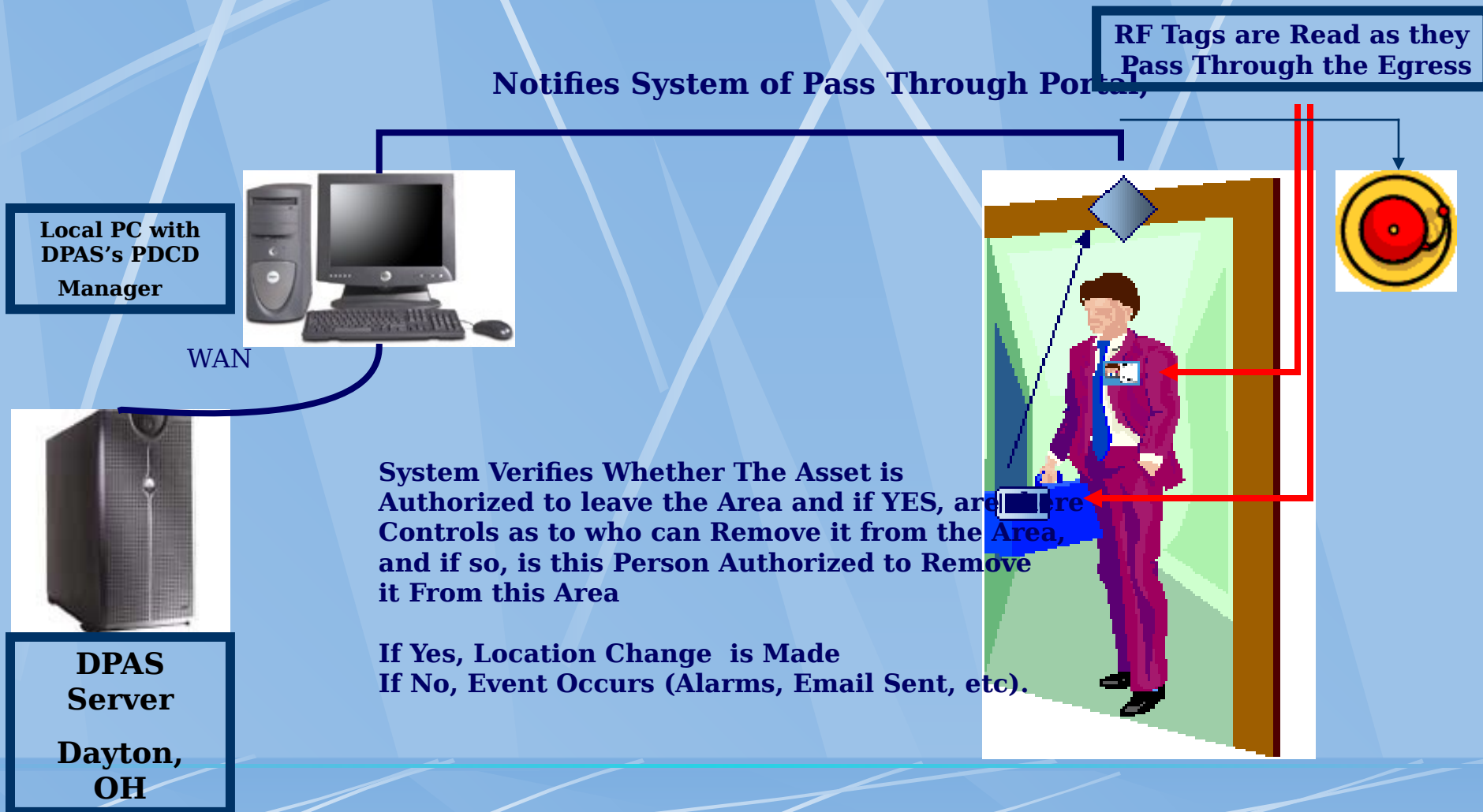
**Each Portal is assigned 2 Possible Locations.
System checks to see which Location the
Asset is assigned, then systematically assigns
it to the Other Location.**

**RF Tag is Read as it
Passes Through an
Egress with Portals**



Enclave 1

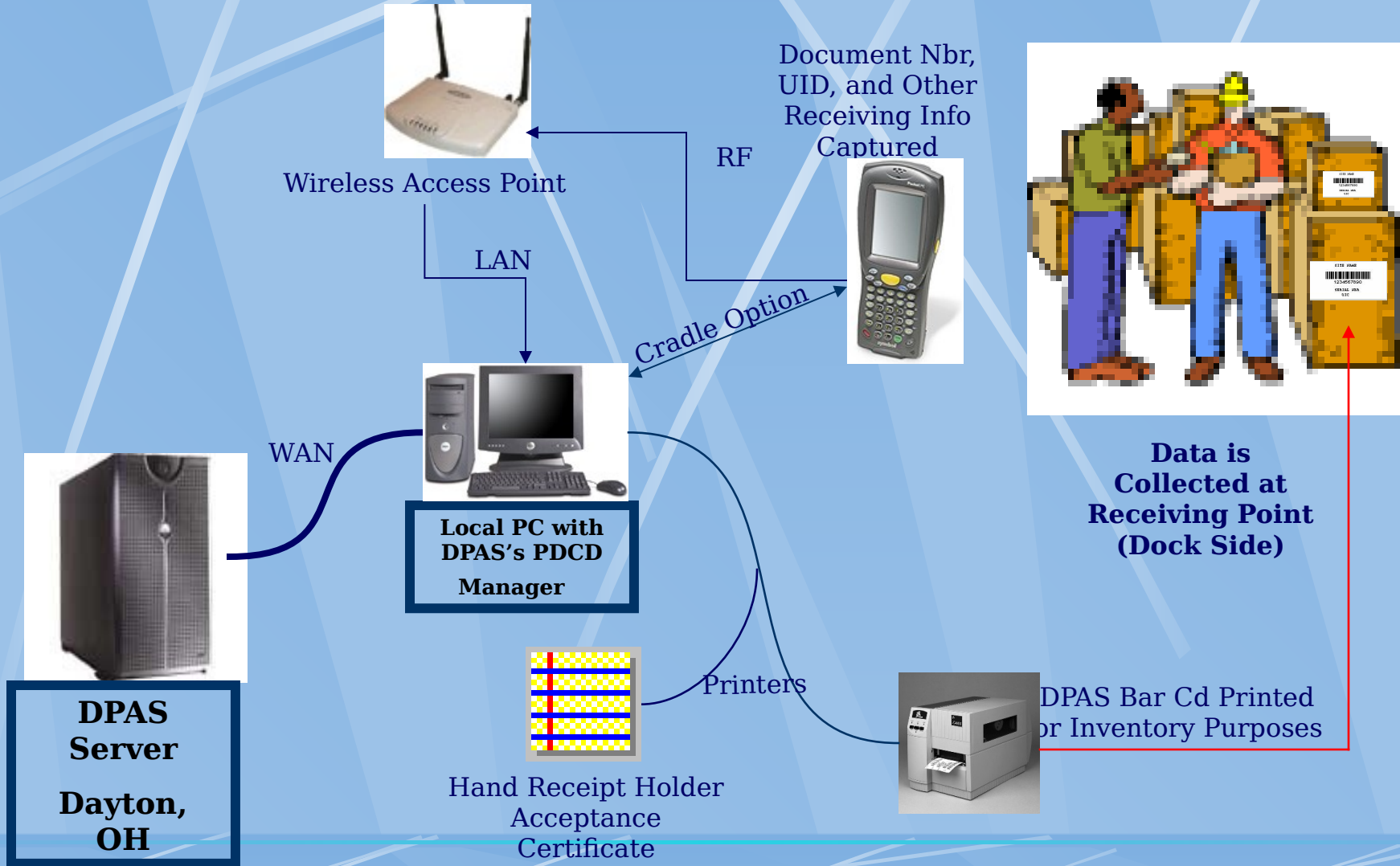
Egress Control with/without Location Change



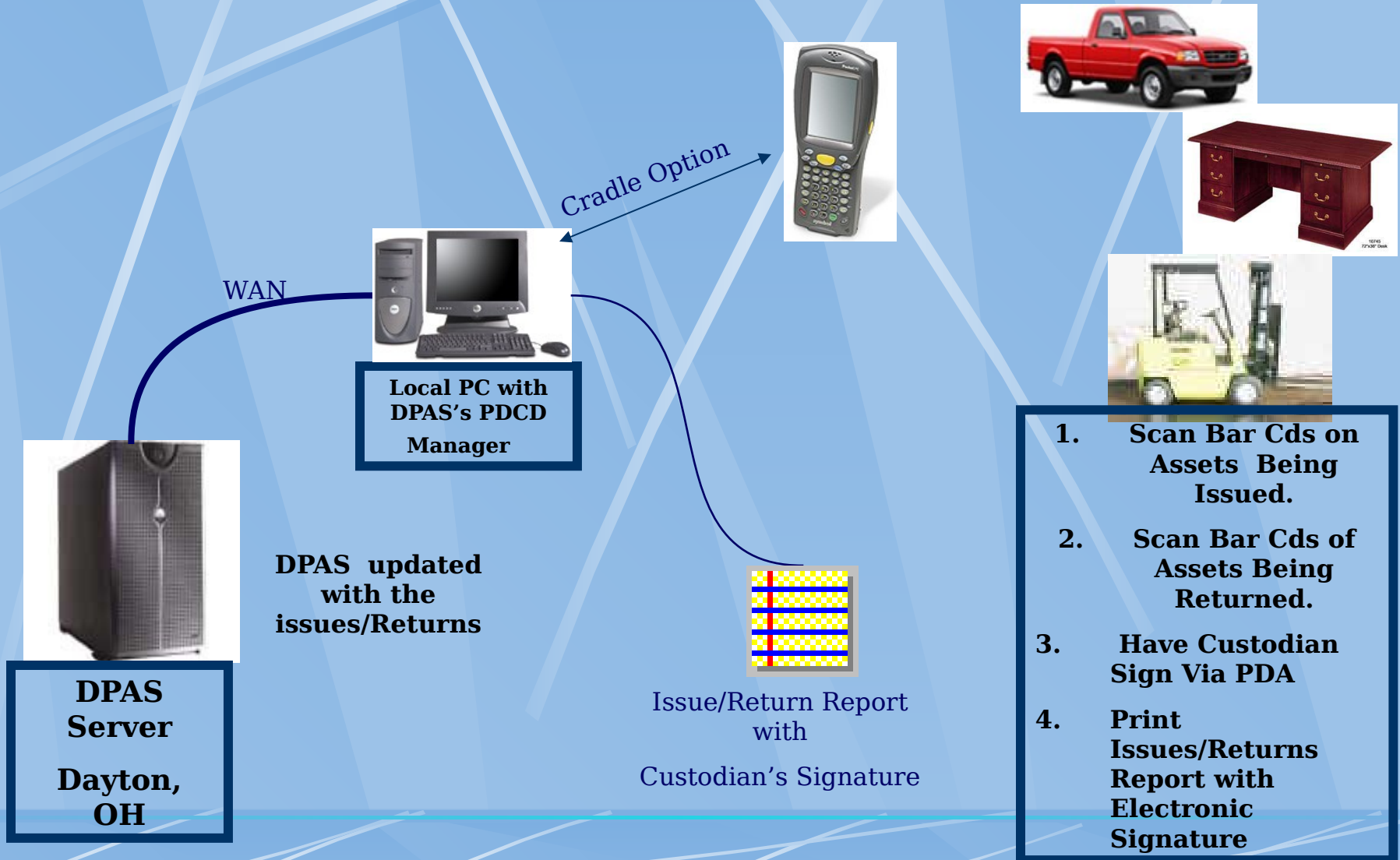
Asset Receiving

- **Asset Is Placed Under Control At Point of Entry**
- **Ensure Assets are Managed From Inception**
- **Improves Property Accountability**
- **Bar Code Labels Printed During Actual Check-In Process**
- **Auto-Capture of UID from Data Matrix Label On Asset And Update Asset Record**

Receipt Processing



Property Issues/Returns



Print/Utilize 2D Bar Cds

● **Current:**

- **DPAS prints/utilizes 1D, Code 39 Bar Cd Labels for Inventory and Property Transfer**

● **Proposal:**

- **Modify DPAS's current processes to print/utilize 2D Bar Cd Labels incorporating the UID as information within the label**



DPAS



Questions and/or Comments